| Inde | ex of C | laims |  |
|------|---------|-------|--|
|      |         |       |  |

10/677,075

Examiner

Date

Nam V. Nguyen

Applicant(s)/Patent under Reexamination

KONNO, TAKESHI

Art Unit

2635

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

| [- | (Through numeral)<br>Cancelled |
|----|--------------------------------|
| ÷  | Restricted                     |

Claim

| N | Non-Elected  |
|---|--------------|
| Γ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla   | aim                        | Date             |          |          |              |          |            |              |          |          |
|-------|----------------------------|------------------|----------|----------|--------------|----------|------------|--------------|----------|----------|
| Final | Original                   | 3/8/06           |          |          |              |          |            |              |          |          |
|       | 1                          | 1                |          | $\vdash$ |              |          | $\vdash$   |              | Т        | П        |
|       | 2                          | 1                |          |          |              |          |            |              |          | П        |
|       | 3                          | 1                |          |          |              |          |            |              |          | П        |
|       | 1<br>2<br>3<br>4<br>5      | 77777            |          |          |              |          |            |              |          |          |
|       |                            | 1                |          |          |              |          |            |              |          |          |
|       | 6<br>7                     | V                |          |          |              |          |            |              |          |          |
|       | 7                          |                  |          |          |              |          |            |              | L        | Ш        |
|       | 8                          | L                |          | L_       |              |          |            |              |          | Ш        |
|       | 9                          | <u> </u>         |          |          |              | L        | L_         | <u> </u>     | L        | Ш        |
|       | 10                         | L                |          | L.       | _            |          | lacksquare |              |          | Ш        |
|       | 11                         |                  |          | L        | <u> </u>     | <u> </u> |            |              |          | H        |
|       | 12                         | <u> </u>         | <u> </u> | <u> </u> | <u> </u>     | ├        | <u> </u>   | <del> </del> | ⊢        | Н        |
|       | 12<br>13<br>14<br>15<br>16 | ├-               | ├        | ├-       | $\vdash$     | <u> </u> | <u> </u>   | ├            | ├        | Н        |
|       | 14                         | $\vdash$         | ┝        | ┝        | <u> </u>     | $\vdash$ | ├          | -            | $\vdash$ | Н        |
|       | 15                         | $\vdash$         | $\vdash$ |          | ├            | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ | Н        |
|       | 17                         | H                |          |          | <u> </u>     |          | ┢          | $\vdash$     | $\vdash$ | Н        |
|       | 17<br>18                   | ⊢                | ⊢        | ┝        | ├─           | $\vdash$ | -          | $\vdash$     | -        | Н        |
|       | 19                         | ⊢                | _        | ┢        | ├            | $\vdash$ |            | $\vdash$     | $\vdash$ | H        |
|       | 20                         | ┢                |          | -        | ┢            | $\vdash$ | $\vdash$   | $\vdash$     | -        | Н        |
|       | 21                         | ┢                | $\vdash$ | $\vdash$ |              | ┢        | $\vdash$   | ┢            | ┢        | Н        |
| -     | 22                         | $\vdash$         |          |          | $\vdash$     | $\vdash$ | -          | $\vdash$     | $\vdash$ | H        |
| -     | 23                         | $\vdash$         |          | ┢        | <del> </del> | -        | $\vdash$   |              |          | Н        |
|       | 23<br>24                   |                  |          |          | $\vdash$     | -        | -          | T            |          | Н        |
| -     | 25                         | Н                |          |          | T            | -        |            | $\vdash$     |          | П        |
|       | 26                         |                  |          |          |              |          |            |              |          |          |
|       | 26<br>27                   | $\Box$           |          |          |              |          |            |              | Г        |          |
|       | 28<br>29                   | Г                |          |          |              |          |            |              |          |          |
|       | 29                         |                  | П        | Г        |              |          |            |              |          |          |
|       | 30                         |                  |          |          |              |          |            |              |          |          |
|       | 31                         |                  |          |          |              |          |            |              |          |          |
|       | 32                         |                  |          |          |              | _        |            |              |          |          |
|       | 33                         | $ldsymbol{oxed}$ |          | L        | L            | L        | $\vdash$   | L            | <u> </u> | Щ        |
|       | 34                         | <u> </u>         | <u> </u> | L.       | L            | L        | L          | <u> </u>     | L        | Щ        |
|       | 35                         | <u> </u>         | ╙        | ╙        | L.           | <u> </u> | <u> </u>   | <u> </u>     | <b> </b> | Щ        |
|       | 36                         | <u> </u>         | <u> </u> | $\vdash$ | _            | <u> </u> | ⊢          | <u> </u>     | <u> </u> | Ш        |
|       | 37                         | ⊢                | <u> </u> | <u> </u> | _            | <u> </u> | $\vdash$   | $\vdash$     | <u> </u> | Щ        |
|       | 38                         | ⊢                | $\vdash$ | $\vdash$ | <u> </u>     | <u> </u> | $\vdash$   | <del> </del> | ├-       | Н        |
|       | 39                         | $\vdash$         | $\vdash$ | $\vdash$ | $\vdash$     | ├-       | ├—         | $\vdash$     | -        | Н        |
|       | 41                         | ├-               | ├        | -        | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$ |
|       | 41                         | <del> </del>     | $\vdash$ | $\vdash$ | $\vdash$     | ⊢        | ├          | $\vdash$     | $\vdash$ | Н        |
|       | 42                         | $\vdash$         | ├        | -        | ┝            | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ | Н        |
|       | 44                         | ⊢                | $\vdash$ | $\vdash$ | -            | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ | Н        |
|       | 45                         | $\vdash$         | $\vdash$ | $\vdash$ | <u> </u>     | $\vdash$ | -          | ⊢            | ┢        | Н        |
|       | 46                         | $\vdash$         | $\vdash$ | $\vdash$ |              |          | $\vdash$   |              |          | H        |
|       | 47                         | $\vdash$         | $\vdash$ | $\vdash$ | <u> </u>     | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ | Н        |
|       | 48                         |                  | $\vdash$ | $\vdash$ |              | H        | Н          | _            | Н        | Н        |
|       | 49                         | $\vdash$         | Н        | Т        |              | Т        |            | Т            | Т        | H        |
|       | 50                         | T                |          | Т        |              | Н        |            | Г            | $\vdash$ | Н        |

| Cie      | Claim          |   |          |  |                | Jak  | -  |              |             |          |
|----------|----------------|---|----------|--|----------------|--|--|--------------|-------------|----------|
| Final    | Original       |   |          |  |                |  |  |              |             |          |
|          | 51             |   |          |  |                |  |  |              |             |          |
| <u> </u> | 52             | -   |          | -  | Н              | _  | $\vdash$   | H            |             |          |
|          | 51<br>52<br>53 | _   | _        | _  |                | _  | ⊢  | H            | -           | -        |
| L        | 53             | _   | _        | _  |                | _  | Щ  | H            | _           | _        |
| L        | 54<br>55       | $oxed{\begin{tabular}{cccccccccccccccccccccccccccccccccccc$ |          | Щ  |                |  | L.   | L            | Щ           |          |
|          | 55             |   |          |  |                |  | L  | L            |             |          |
|          | 56             |   |          |  |                |  |  |              |             |          |
|          | 57             |   |          |  |                |  |  |              |             |          |
|          | 57<br>58       |   |          | Г  |                |  |  |              |             |          |
|          | 59             | П   |          |  | Т              |  |  |              |             |          |
|          | 60             | H   |          | $\vdash$   |                | H  | $\vdash$   |              | $\vdash$    |          |
| -        | 61             | H   | _        | ┢  |                | ├  | -  | Н            |             |          |
|          | 62             | H   | -        | ⊢  | _              | ⊢  |  | ├            | $\vdash$    |          |
| <u> </u> | 62             | $\vdash$  | <u> </u> | ⊢  |                | ⊢  | <u> </u>   | ⊢            | $\vdash$    | -        |
| <u> </u> | 63<br>64       | Ш   | _        | <u> </u>   |                | $\vdash$   | <u> </u>   | <u> </u>     | $\vdash$    | Ш        |
| L        | 64             | L.  | <u> </u> | L.   |                | <u> </u>   | Ь.   | Ь.           | Ш           | $\Box$   |
|          | 65             | Ш   |          |  |                | $ldsymbol{ld}}}}}}$ |  | L            |             |          |
|          | 65<br>66       |   |          |  |                |  |  |              |             |          |
| L        | 67             |   |          |  |                |  |  |              |             |          |
| ĺ        | 68             |   |          |  |                |  |  |              |             |          |
|          | 68<br>69       |   |          |  |                |  |  |              |             |          |
|          | 70             |   |          |  |                |  |  |              |             |          |
|          | 71             |   |          |  |                |  |  |              |             |          |
|          | 72             |   |          |  |                | Г  | Т  | Г            | Т           | _        |
|          | 71<br>72<br>73 |   |          |  |                |  |  |              |             |          |
|          | 74             | _   |          |  |                |  |  |              | Т           | $\vdash$ |
|          | 74<br>75       |   |          |  |                |  |  |              |             |          |
|          | 76<br>77       |   |          |  |                |  |  |              |             |          |
|          | 77             |   |          |  |                |  |  |              |             |          |
|          | 78             |   |          |  |                |  |  |              |             |          |
|          | 79             | Г   |          |  |                |  |  |              |             |          |
|          | 80             | Т   | _        |  |                | $\vdash$   | $\vdash$   | $\Box$       |             |          |
|          | 81             | Г   | $\vdash$ |  |                |  | Т  |              |             |          |
|          | 82             | <b></b> -   | _        | t  |                | $\vdash$   | Т  | $\vdash$     | $\vdash$    | <u> </u> |
|          | 82<br>83       | $\vdash$  | ┢        | <del>                                     </del> | $\vdash$       | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$    | $\vdash$ |
| <b>-</b> | 84             | $\vdash$  | $\vdash$ |  | -              | $\vdash$   | ╁  | $\vdash$     | $\vdash$    | $\vdash$ |
| -        | 85             | $\vdash$  | ├        | $\vdash$   | H              | $\vdash$   | $\vdash$   | $\vdash$     | <del></del> | $\vdash$ |
| <b> </b> | 86             | $\vdash$  | $\vdash$ |  | <del>  -</del> | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$    | $\vdash$ |
|          |                | $\vdash$  | $\vdash$ | $\vdash$   | $\vdash$       | -  | -  | $\vdash$     | $\vdash$    | ⊢        |
| $\vdash$ | 87             | ├   | <b> </b> | ⊢  | $\vdash$       | ⊢  | ⊢  | ┝            | <u> </u>    | <u> </u> |
| -        | 88<br>89       | -   | ⊢        | $\vdash$   | <u> </u>       | <del> </del>   | ├—   | $\vdash$     | $\vdash$    | $\vdash$ |
| $\vdash$ | 09             | $\vdash$  | $\vdash$ | ⊢  | <u> </u>       | ├  | ├—   | ├            | $\vdash$    | <u> </u> |
| -        | 90<br>91       | ⊢   | ⊢        | ┝  | $\vdash$       | ┝  | $\vdash$   | <u> </u>     | <u> </u>    | <u> </u> |
| $\vdash$ | 91             | $\vdash$  | $\vdash$ | $\vdash$   | $\vdash$       | $\vdash$   | <del>  -</del>                                   | <del> </del> | ⊢           | ├—       |
| <b>—</b> | 92<br>93       | $\vdash$  | $\vdash$ | $\vdash$   | $\vdash$       | ⊢  | ┢  | <u> </u>     | ├           | ⊢        |
| $\vdash$ | 94             | $\vdash$  | $\vdash$ | ├─   | $\vdash$       | ├-   | -  | $\vdash$     | ⊢           | ⊢        |
| -        | 95             |   | ├一       | <del> </del>                                     | -              | ├  | $\vdash$   | H            | $\vdash$    | $\vdash$ |
| $\vdash$ | 96             | $\vdash$  | $\vdash$ | $\vdash$   | $\vdash$       | $\vdash$   | <del>                                     </del> | -            | <b> </b> -  | $\vdash$ |
| $\vdash$ | 97             | $\vdash$  | Η-       | $\vdash$   | $\vdash$       | $\vdash$   | ├─   | Н            | $\vdash$    | Н        |
|          | 98             | $\vdash$  | -        | $\vdash$   | $\vdash$       | $\vdash$   | -  | -            | _           | $\vdash$ |
|          | 99             |   | $\vdash$ | $\vdash$   | -              | Η-   | H  | Η-           | -           |          |
| $\vdash$ | 100            | $\vdash$  | $\vdash$ | $\vdash$   |                | $\vdash$   | -  | $\vdash$     | Н           |          |
|          | - 30           |   | ш        |  |                |  | ш  |              |             |          |

| Cla      | Date                            |          |          |   |          |          |          |          |   |                 |
|----------|---------------------------------|----------|----------|---|----------|----------|----------|----------|---|-----------------|
| Final    | Original                        |          |          |   |          |          |          |          |   |                 |
|          |                                 |          |          |   |          |          |          |          |   |                 |
|          | 101                             |          |          | $ldsymbol{le}}}}}}$ |          |          | L        |          | $oxed{oxed}$  | Щ               |
| igwdow   | 102<br>103                      |          |          | $\vdash$  |          |          | ļ        | _        | $\vdash$  | $\dashv$        |
| <u> </u> | 103                             | _        |          | $\vdash$  | $\vdash$ |          |          | $\vdash$ |   | $\dashv$        |
|          | 105                             |          | -        |   |          | $\vdash$ | $\vdash$ | $\vdash$ | H   | $\dashv$        |
|          | 105<br>106                      | -        | -        | -   | _        | $\vdash$ | $\vdash$ | $\vdash$ | Н   | Н               |
|          | 107                             |          | Г        | Г   |          | Г        | _        |          |   |                 |
|          | 108<br>109                      |          |          |   |          |          |          |          |   |                 |
|          | 109                             |          |          | lacksquare  |          |          |          |          |   |                 |
|          | 110                             |          |          |   |          |          | <u> </u> | _        | _   | Щ               |
|          | 111                             | _        | _        | L   |          |          | <u> </u> | <u> </u> | $\vdash$  | Н               |
| $\vdash$ | 112                             | H        | $\vdash$ | $\vdash$  | H        | -        | -        | $\vdash$ | $\vdash$  | Н               |
| $\vdash$ | 113<br>114<br>115               | <u> </u> |          | ├   | H        | $\vdash$ | $\vdash$ | <u> </u> | $\vdash$  | Н               |
|          | 115                             |          | $\vdash$ | H   | H        |          | $\vdash$ |          | H   | Н               |
|          | 116<br>117<br>118               | Н        | Т        | T   | Г        | Г        | Г        | Т        | Т   | Н               |
|          | 117                             |          |          |   |          |          |          |          |   |                 |
|          | 118                             |          |          |   |          |          |          |          |   |                 |
|          | 119<br>120<br>121               |          |          |   |          |          |          |          | $ldsymbol{ld}}}}}}$ | Ш               |
|          | 120                             |          |          | <u> </u>  | _        | <u> </u> |          | _        | _   | Ш               |
|          | 121                             |          |          | <u> </u>  | <u> </u> | <b> </b> | <u> </u> | _        | <u> </u>  | Н               |
|          | 122                             |          | _        | ┝   | ├        | $\vdash$ | $\vdash$ | -        | $\vdash$  | Н               |
| $\vdash$ | 122<br>123<br>124<br>125<br>126 |          | Н        | ┢   |          | -        | Н        | $\vdash$ | H   | Н               |
|          | 125                             |          |          | $\vdash$  |          | _        |          | _        |   | Н               |
|          | 126                             | Г        | _        |   |          | Г        |          |          |   | П               |
|          | 127                             |          |          |   |          |          |          |          |   |                 |
|          | 127<br>128<br>129               | Ц        |          |   |          |          |          | _        | $oxed{oxed}$  | Щ               |
|          | 129                             | <u> </u> | _        | ┞   |          | L        | L.       | L        | ļ   | Ш               |
|          | 130<br>131<br>132               |          | _        | ⊢   |          |          | <u> </u> |          | -   | Н               |
|          | 131                             | $\vdash$ | $\vdash$ | ⊢   |          | ├        | ⊢        | ⊢        | ┢   | Н               |
| -        | 133                             | $\vdash$ | _        | ┢   | ┢╌       | ┢┈       | ┝        |          | ┝   | Н               |
| $\vdash$ | 134                             |          |          | $\vdash$  |          | H        | $\vdash$ | ┢        | <del>                                     </del>  | Н               |
|          | 133<br>134<br>135               |          |          |   | L        |          |          |          |   |                 |
|          | 136<br>137                      |          |          |   |          |          |          |          |   |                 |
|          | 137                             |          | L        | L   | L        | L        | _        | L        |   | Ш               |
| L        | 138                             | L        | L        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$   | $\vdash$ | ldash    | $\vdash$ | _        | $ldsymbol{f eta}$   | $\vdash \vdash$ |
| <b>-</b> | 139<br>140                      | H        | ⊢        | ⊢   | $\vdash$ | $\vdash$ | $\vdash$ | ⊢        | <u> </u>  | $\vdash \vdash$ |
| <u> </u> | 141                             | $\vdash$ | $\vdash$ | $\vdash$  | ├-       | ┝        | $\vdash$ | $\vdash$ | $\vdash$  | Н               |
| -        | 142                             | $\vdash$ | ┝╼       | <del>                                     </del>  | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$  | $\vdash \vdash$ |
| <b> </b> | 143                             | Т        | $\vdash$ |   | ┢        | Г        | Т        | Т        | T   | Н               |
|          | 144                             |          |          |   |          |          |          |          |   |                 |
|          | 145                             |          |          |   |          |          |          |          |   |                 |
|          | 146                             |          | L        |   | Ĺ        | Ĺ        | Ĺ        | ļ        | L   | Ц               |
| L        | 147                             | <u> </u> | <u> </u> | _   | L        | L        | L        | <u> </u> | _   | Ы               |
| $\vdash$ | 148                             | <u> </u> | <u> </u> | <u> </u>  | $\vdash$ | -        | <u> </u> | $\vdash$ | $\vdash$  | Н               |
|          | 149                             | <u> </u> | -        | $\vdash$  | <u> </u> | _        | $\vdash$ | ├-       | $\vdash$  | $\vdash\vdash$  |
| L        | 150                             | لـــا    |          | L   | Ш.       | Ц.       | Ц_       |          | Ц.  | ш               |